PP3380-AB
(USB3380-AB Evaluation Board)

The PP3380-AB is evaluation board forUSB 3380-AB, a PCI Express Gen 2 to USB 3.0 SuperSpeed Peripheral Controller. It features one PCI Express Gen 2 x1 port and one USB 3.0 SuperSpeed client port. The PP3380-AB provides a matching bandwidth at 5 GT/s between the PCI Express Gen 2 bus and the USB 3.0 SuperSpeed bus. The controller can easily add a USB 3.0 client port to an existing PCI Express system, as well as convert an existing PCI Express function (endpoint) to a USB 3.0 product. The USB 3380 can configure the PCI Express port as one x1 upstream port or one x1 downstream port. The flexibility allows different system configurations to achieve the maximum performance of the product.
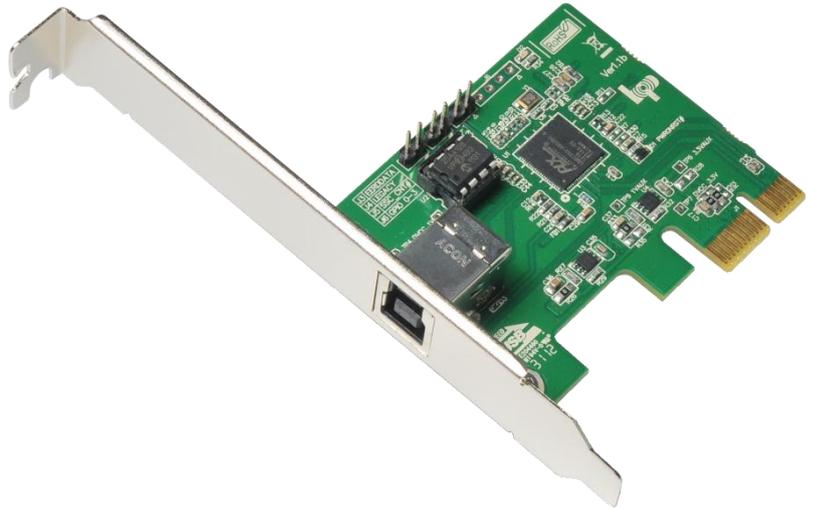
Specification:

USB 3.0 Client Interface
◆ USB 3.0 Specification
◆ 1 upstream port
◆ Supports SuperSpeed, Hi-Speed, Full-Speed modes
◆ Four Descriptor-based DMA channels for automatic data transfers
◆ Supports USB Duet® Technology
◆ USB Auto-Enumeration Technology
◆ Support for Bulk, Isochronous, and Interrupt Endpoints
◆ USB Power Management USB 3.0 link power management states: U0, U1, U2, U3
◆ USB 2.0 link power management states: L0, L1, L2

PCI Express Interface
■ PCI Express Gen 2 (5Gbps)
■ Electrical Compliance to PCI Express Base Specification r2.0
■ PCIe interface and integrated root complex provides two configurations:
   one x1 upstream port
   one x1 downstream port
■ PCI Express Power Management □ All link power management states: L0, L0s, L1, L2/L3 Ready, and L3
□ Device states: D0 and D3(hot & cold)
□ Vaux, Wake#, Beacon support
■ 256 byte maximum payload size
■ ExpressCard 2.0 compliance

Note: Software development is **required**. To obtain RDK, please contact PLX Sales Representative or Distributor;
http://www.plxtech.com/about/contacts

Applications

Target applications for the **PP3380-AB** adapter as a PCI Express endpoint include PCs, servers, docking stations, printers, and PCI Express embedded systems.

PP3380-AB application

A Host

B Device

USB3.0

PP3380-AB

PCIe slot

Add a USB 3.0 Client Port to PCI Express-Based Systems
The PP3380-AB can be used to easily add a USB 3.0 client port to any PCI Express based embedded system. As a PCI Express endpoint, the USB 3380's Standard PCI Express interface connects directly to any PCI Express bus.

PP3380-AB-PE3A application

A Host

B Device

USB3.0

PP3380-AB

PE3A

ExCard slot

Add a USB 3.0 Client Port to ExpressCard-Based Systems
The PP3380-AB can be used to easily add a USB 3.0 client port to any ExpressCard based embedded system.

PP3380-AB EVK Contents

PP3380-AB
(PCI Express x1 to usb 3.0 Adapter) x1

(USB 3.0 A Male to B Male Cable) x1

PP3380-AB-PE3A Contents

PP3380-AB
(PCI Express x1 to usb 3.0 Adapter) x1

PE3A
(PCI-Express or USB 3.0 to ExpressCard Adapter) x1
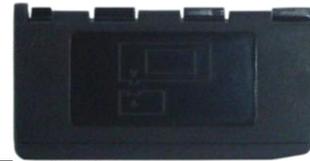
SPB087
(ExpressCard 34 to 54 Bracket) x1

External 5V/12V power supply cable x1

(USB 3.0 A Male to B Male Cable) x1

Option

PP3U

Legacy PC (PCI slot) <>PP3U (USB3.0 Host) <> USB3.0 CABLE

PP2U

PC (PCIE slot) <>PP2U (USB3.0 Host) <> USB3.0 CABLE <>

EC4U

Notebook (Expresscard slot) <>EC4U (USB3.0 Host) <> USB3.0 CABLE <>

PP3380-AB<> PC (PCIe slot)
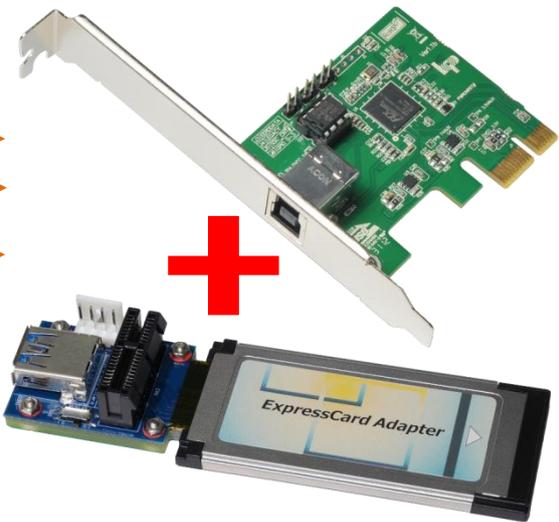
PP3380-AB+PE3A<>ExpressCard slot
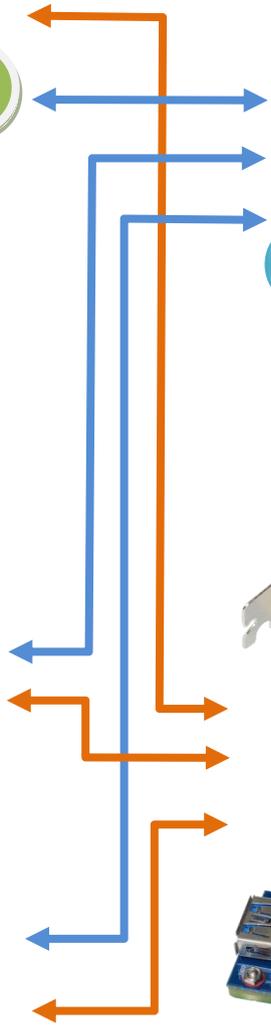
Professional I/O adapter provider

Bplus Technology Co., Ltd.